AMENDMENTS TO THE CLAIMS:

Claims 1-37 are canceled without prejudice or disclaimer. Claims 38-96 are added. The following is the status of the claims of the above-captioned application, as amended.

Claims 1-37 (Canceled.)

- 38. (New.) A process for production of an alcohol product comprising the sequential steps of:
 - (a) providing a slurry comprising water and granular starch,
 - (b) holding said slurry in the presence of an acid alpha-amylase and a glucoamylase at a temperature of 0°C to 20°C below the initial gelatinization temperature of said granular starch for a period of 5 minutes to 12 hours,
 - (c) holding said slurry in the presence of an acid alpha-amylase and a glucoamylase and a yeast at a temperature between 10°C and 35°C to produce ethanol and,
 - (d) optionally recovering the ethanol.
- 39. (New.) The process of claim 1, wherein the product is fuel ethanol, potable ethanol and/or industrial ethanol.
- 40. (New.) The process of claim 1, wherein the temperature under step (c) is between 28°C and 36°C.
- 41. (New.) The process of claim 1, wherein the temperature under step (c) is between 29°C and 35°C.
- 42. (New.) The process of claim 1, wherein the temperature under step (c) is between 30°C and 34°C.
- 43. (New.) The process of claim 1, wherein the temperature under step (c) is between 11°C and 17°C.
- 44. (New.) The process of claim 1, wherein the temperature under step (c) is between 12°C and 16°C.

- 45. (New.) The process of claim 1, wherein the temperature under step (c) is between 13°C and 15°C.
- 46. (New.) The process of claim 1, wherein the alcohol product is a beer.
- 47. (New.) The process of claim 1, wherein the acid alpha-amylase and the glucoamylase are added in step (b) in a ratio of between 0.30 and 5.00 AFAU/AGU.
- 48. (New.) The process of claim 1, wherein the acid alpha-amylase and the glucoamylase are added in step (c) in a ratio of between 0.30 and 5.00 AFAU/AGU.
- 49. (New.) The process of claim 1, wherein the acid alpha-amylase is an acid fungal alpha-amylase.
- 50. (New.) The process of claim 1, wherein the acid fungal alpha-amylase is obtained from a strain of *Aspergillus*.
- 51. (New.) The process of claim 1, wherein the acid fungal alpha-amylase is obtained from a strain of *Aspergillus niger* or a strain of *Aspergillus oryzae*.
- 52. (New.)The process of claim 1, wherein the acid alpha-amylase is an acid alpha-amylase having an amino acid sequence of SEQ ID NO:1.
- 53. (New.) The process according to claim 1, wherein the glucoamylase is obtained from a strain of Aspergillus, Talaromyces or Clostridium.
- 54. (New.) The process according to claim 1, wherein the glucoamylase is obtained from a strain of *Aspergillus niger*.
- 55. (New.) The process of claim 1, wherein the acid alpha-amylase is an acid bacterial alpha-amylase.
- 56. (New.) The process of claim 55, wherein the acid alpha-amylase is derived from a strain of *B. licheniformis*, *B. amyloliquefaciens* or *B. stearothermophilus* alpha-amylase.
- 57. (New.) The process of claim 1, wherein the acid alpha-amylase activity is present in an

amount of 50-500 AFAU/kg of DS.

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- 58. (New.) The process of claim 1, wherein the glucoamylase activity is present in an amount of 20-200 AGU/kg of DS.
- 59. (New.) The process of claim 1, wherein the ratio between acid alpha-amylase activity and glucoamylase activity is between 0.35 and 5.00 AFAU/AGU.
- 60. (New.) The process of claim 1, wherein step (b) is performed in the presence of an enzyme activity selected from the group consisting of xylanase, cellulase and phytase.
- 61. (New.) The process of claim 1, wherein step (c) is performed in the presence of an enzyme activity selected from the group consisting of xylanase, cellulase and phytase.
- 62. (New.) The process of claim 1, wherein the starch slurry has 5-60% DS granular starch.
- 63. (New.) The process of claim 1, wherein the starch slurry has 10-50% DS granular starch.
- 64. (New.) The process of claim 1, wherein the starch slurry has 20-40% DS granular starch.
- 65. (New.) The process of claim 1, wherein the pH during step (b) is in the range of 3.0 to 7.0.
- 66. (New.) The process of claim 1, wherein the pH during step (b) is in the range of 3.5 to 6.0.
- 67. (New.) The process of claim 1, wherein the pH during step (b) is in the range of 4.0-5.0.
- 68. (New.) The process of claim 1, wherein the pH during step (c) is in the range of 3.0 to
- 69. (New.) The process of claim 1, wherein the pH during step (c) is in the range of 3.5 to 6.0.

- 70. (New.) The process of claim 1, wherein the pH during step (c) is in the range of 4.0-5.0.
- 71. (New.) The process of claim 1, wherein the granular starch is obtained from tubers, roots, stems, fruits, seeds or whole grain.
- 72. (New.) The process of claim 1, wherein the granular starch is obtained from corn, cobs, wheat, barley, rye, milo, sago, cassava, manioc, tapioca, sorghum, rice or potatoes.
- 73. (New.) The process of claim 1, wherein the granular starch is obtained from cereals.
- 74. (New.) The process of claim 1, wherein the granular starch is obtained from dry milling or wet milling of whole grain.
- 75. (New.) The process of claim 1, wherein the holding time under step (b) is from 10 minutes to 6 hours.
- 76. (New.) The process of claim 1, wherein the holding time under step (b) is from 15 minutes to 3 hours.
- 77. (New.) The process of claim 1, wherein the holding time under step (b) is from 20 minutes to 1½ hour.
- 78. (New.) The process of claim 1, wherein the holding time under step (b) is from 30 minutes to 1 ½ hour.
- 79. (New.) The process of claim 1, wherein the holding time under step (b) is from 40 to 70 minutes.
- 80. (New.) The process of claim 1, wherein the holding time under step (b) is from 50 to 60 minutes.
- 81. (New.) The process of claim 1, wherein the holding time under step (c) for a period of 20 to 250 hours.
- 82. (New.) The process of claim 1, wherein the holding time under step (c) for a period of 5

to 190 hours.

- 83. (New.) The process of claim 1, wherein the holding time under step (c) for a period of 30 to 180 hours.
- 84. (New.) The process of claim 1, wherein the holding time under step (c) for a period of 40 to 170 hours.
- 85. (New.) The process of claim 1, wherein the holding time under step (c) for a period of 50 to 160 hours.
- 86. (New.) The process of claim 1, wherein the holding time under step (c) for a period of 60 to 150 hours.
- 87. (New.) The process of claim 1, wherein the holding time under step (c) for a period of 70 to 140 hours.
- 88. (New.) The process of claim 1, wherein the holding time under step (c) for a period of 80 to 130 hours.
- 89. (New.) The process according to claim 1, wherein the temperature under step (b) is from 45°C to 75°C.
- 90. (New.) An enzyme composition comprising acid alpha-amylase activity and glucoamylase activity in a ratio of between 0.30 and 5.00 AFAU/AGU and one or more additional enzymes selected from the group consisting of cellulase, xylanase and phytase.
- 91. (New.) A mashing process comprising treating a mash with an acid alpha-amylase.
- 92. (New.) The process of claim 91, wherein the acid alpha-amylase is derived from a fungus.
- 93. (New.) The process of claim 91, wherein the acid alpha-amylase is derived from *Aspergillus*.
- 94. (New.) The process of claim 91, wherein the acid alpha-amylase is derived from *A. niger*.

- 95. (New.) The process of claim 91, wherein the acid alpha-amylase has the amino acid sequence shown in SEQ ID NO:1
- 96. (New.) The process of claim 91, comprising;
 - (a) forming a mash comprising between 5% and 100% barley malt (w/w of the grist);
 - (b) prior to, during or after a) adding an acid alpha-amylase and at least one enzyme selected from the list comprising: a protease, cellulase and a maltose generating enzyme.
 - (c) attaining within 15 minutes of a) an initial incubation temperature of at least 70°C;
 - (d) following c) incubating the mash at a temperature of at least 70°C for a period of time sufficient to achieve an extract recovery of at least 80%.